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Atomic structure of a cobalt aluminophosphate material, determined by electron diffraction (white, hydrogen atoms; the surrounding “glow” represents a map of electrostatic potential). Many organic and inorganic compounds form only very small crystals, the structures of which can now be determined with sufficient sensitivity to reveal the positions of even the lightest (hydrogen) atoms. See pages 136 and 166 and see http://scim.ag/2jcryAl for a related animation. Illustration: C. Bickel/Science; L. Palatinus et al., *Science* **355**, 166–169 (2017)

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